Climatological Data for June, 1910. DISTRICT No. 12, COLUMBIA VALLEY.

EDWARD A. BEALS, District Editor.

GENERAL SUMMARY.

June, 1910, in the Columbia Valley was a quiet month, with no severe storms nor any wide departures from normal conditions. The rainfall was deficient, which caused unusually low stages in the smaller tributaries of the main rivers, and in some localities a scarcity of water for irrigation and mining purposes. Navigation was suspended in the upper stretches of the Willamette River on account of low water in connection with gravel bars which formed during the high water last winter. The rain that fell came opportunely, and the deficiency was not so noticeable in the agricultural sections as otherwise would have been the case. The temperature extremes covered a wide range as is usual, without being damaging. The very low temperatures all occurred at high elevations, where they are common nearly every month in the year, and the high temperatures were not higher than usual for the month of June.

Outdoor work proceeded without interruption, and crops in general made favorable advancement.

TEMPERATURE.

The mean temperature, as determined from the records of 223 stations, was 59.8°, which is 0.5° below the average. Over the eastern portion of the district, the mean temperatures were generally above the normal, while elsewhere abnormally low mean temperatures obtained. The greatest departures below the seasonal average were -4.7° in the Yakima Valley of central Washington, -3.8° in southwestern Oregon, -2.5° to -3.5° in western and northwestern Washington, and also in portions of the Snake River Valley. The greatest departures above the normal temperatures were +3.0° and over in Idaho, eastern Oregon, and eastern Montana.

The warmest sections were in the drainage area of the Snake River along the middle portion of its course, where mean temperatures of 65° to 78° occurred, and along the lower course of the Columbia River in central Washington and as far as the mouth of Deschutes River, where the mean temperatures were 60° to 68°. The coolest sections were, as usual, along the

coasts, and in the elevated districts of the interior.

There were no really pronounced cold spells, the minimum temperatures were generally recorded during the first three days over the western portion of the district, while in Montana the cold period was prolonged throughout the greater portion of the first decade. Relatively cool weather obtained on the 12th and 13th, and again on the 21st, 22d, 23d, and 24th. Abnormally warm weather obtained quite generally on the 9th and 10th and from the 24th to 26th, while in the extreme eastern portion of the district the latter period was prolonged another day, and other relatively warm spells were the 14th and 15th, as well as the 18th and 19th.

The highest mean temperature was 78.6° at Huntington, Oreg., in the Blue Mountains, on the watershed of the Snake River, at an elevation of 2,110 feet, and the lowest was 45.3° at Musick, Oreg., in the Umpqua River drainage area, at an elevation of 5,000 feet. The highest recorded temperature was 105° at Vale, Oreg., in the Malheur River Basin, at an elevation of 2,450 feet, on the 26th, and the lowest was 20° at Range, Oreg., in the John Day Basin, at an elevation of 3,500 feet, on the 2d, 6th, and 7th.

PRECIPITATION.

The average precipitation, as determined from the records of 323 stations, was 0.85 inch, which is about 0.50 inch below the normal. The monthly amounts were more than 1.00 inch less than the average in portions of the coast drainage area in northwestern Oregon and northwestern Washington, in the

Grande Ronde River Basin in northeastern Oregon, near the headwaters of the Snake River in Idaho, and in the upper valley of the Columbia in eastern Washington, as well as near the headwaters of its branches in Montana. In only a few localities were there excesses of June rainfall and the amounts were generally small. The rainfall was generally quite well distributed throughout the month, and the precipitation, as usual, was heaviest along the slopes of the Cascade Mountains and westward to the coast. Although amounts of 1.00 inch and over fell during the month in portions of central and northeastern Oregon, in northeastern Washington, northern Idaho, and western Montana, there was at the end of the month a general need of more rain in that portion of the district lying east of the Cascade Mountains.

The greatest monthly precipitation was 4.55 inches at Musick, Oreg., on the Umpqua watershed, at an elevation of 5,000 feet, and none occurred at 7 stations in the interior, at elevations between 1,200 and 3,100 feet. The greatest 24-hour rainfall was 2.50 inches at Quiniault, Wash., on the 20th. Other heavy 24-hour falls of 1 inch or over occurred on the 11th at 20 stations, on the 19th at 1 station, and on the 20th at 5 stations, besides the one mentioned above. These stations are all in the Coast, Puget Sound, or the lower Columbia drainage areas.

The snow in the higher elevations was nearly all melted at the end of the month, there being only a small amount left in the less exposed places. This melting took place a month to six weeks earlier than usual, and the flow of water in all interior streams was the average for the season. As a consequence, the flow of water for irrigation purposes in some sections will probably be less than needed, and placer mining is already being hampered by lack of sufficient stream flow.

THE RIVERS.

May closed with generally falling stages at all river-gaging stations, and the decrease throughout the month of June was, for the most part, quite uniform. The June rains were quite well distributed throughout the district, but the periods of heaviest rainfall occurred near the end of the first and also near the end of the second decade, and though the precipitation, in some instances was comparatively heavy, the excess, or run-off, operated merely to produce a slight rise in the streams for a day or so, when the falling stages recommenced. The highest stages were near the 1st of the month, in most cases occurring on the 1st, while the lowest readings were recorded quite generally on the last day of the month.

The Columbia.—The falling stages of the water at the various stations, as noted on the last of May, really marked the end of the annual rise in the Columbia, and the waters continued falling during June. The highest stages occurred quite generally on June 1, though in some instances there was a delay until the 3d or 4th, and the stages registered for several days were approximately the same. The only really rainy period of the month occurred during the second decade, but as the greater portion of the water was absorbed by the soil, there was no marked change in the slowly decreasing stages of the river, and the lowest readings of the month occurred uniformly on the 30th. A 13-year record at Cascade Locks shows two instances where the June stages at that station were lower than that for the present year; at Celilo, with an 8-year record, two lower stages are recorded; at Umatilla, a record of 16 years shows three lower mean stages, and the same number of lower stages are shown at Wenatchee, which has a record for 11 years, while at The Dalles, where records have been kept for 17 years, there have been 4 years when the mean June stages were lower than that of the present June.

As compared with past years' stages, the average for the month was: At Wenatchee, 2.4 feet below the normal; at Umatilla, 3.0 feet below; at Northport, 4.0 feet below; at Vancouver, 4.7 feet below; at The Dalles, 5.0 feet below, and at Cascade Locks, 8.2 feet below. As compared with the height of the water during the preceding month, the mean stage was 1.8 foot lower at Wenatchee, 2.6 feet lower at Umatilla, 3.3 feet lower at Vancouver, and 4.7 feet lower at The Dalles, while at Northport the mean June stage was 0.6 foot higher than that for May.

The river at Vancouver fell steadily from 17.2 feet on the 1st to 10.8 feet on the 30th; at the Dalles it rose from 28.9 feet on the 1st to 29.2 feet on the 3d and 4th, and then fell steadily to 20.3 feet on the 28th, on which date the river gage was destroyed by a boat colliding with the piling to which the gage was attached, the actual stage on June 30 was approximately 19.5 feet; at Umatilla the river was about stationary during the first 4 days of the month at a stage of 17.8 feet, but from the 5th to the close of the month there was an uninterrupted fall, the reading on the 30th being 12.9 feet; at Wenatchee there was a fall from 33.8 feet on the 1st to 27.2 feet on the 30th; and at Northport, the fall was from 22.6 on the 1st to 16.8 on the 30th.

Navigation on the Columbia was not interrupted during the month.

The Snake.—The mean of the daily stages at the several stations for the month averaged 4.5 feet below that for May, and it was 4.0 feet below the normal for June. The water was highest from the 2d to the 4th, and the lowest on the 30th. At Lewiston the river fell from 11.0 feet on the 1st to 3.4 feet on the 30th; at Weiser there was a slight rise from 7.5 feet on the 1st to 7.9 feet on the 4th, and then a gradual fall to 2.2 feet on the 30th; at Riparia, a rise from 10.2 feet on the 1st to 10.9 feet on the 2d and 3d was followed by falling stages, reaching a reading of 4.4 feet on the 30th. Navigation was not impeded, the regular weekly boat service to Asotin, Wash., which is 6 miles above Lewiston, being maintained throughout the month, and on June 9 a trip was made to the mouth of the Grande Ronde River, 38 miles above Lewiston. The boat service on the Snake River was, however, discontinued on June 30, owing to the low stage of the water, the gage reading at Lewiston on that date being 3.4 feet.

The Willamette.—This river continued to fall throughout June, the highest stages occurring on the 1st, and the lowest generally from the 28th to the 30th. At stations on tributary streams the highest water occurred between the 1st and the 12th, and at Estacada on the Clackamas River, the lowest reading occurred on the 15th, 27th, and 29th. The mean stage of the Willamette ranged between a normal stage at Wilsonville and 3.7 feet below normal at Portland, and was 2.1 feet below normal at Salem, and 1.6 foot below at Albany. The June mean stages at all stations were uniformly lower than those for the preceding month, being 1.3 foot lower at Eugene, 1.5 foot lower at Albany, 1.7 foot lower at Salem, and 3.3 feet lower at Portland. The great difference that appears at Portland was probably due to the high May stage which was caused by backwater from the Columbia.

At Eugene the fall from the 1st to the 30th was so gradual that, generally, it could not be readily measured, and the record shows 4 feet from the 1st to the 5th, inclusive, 3.6 feet on the 6th, and 3.0 feet for the remainder of the month. At Albany there was a steady fall from 2.3 feet on the 1st to 1.6 foot on the last 3 days of the month. At Salem, a stage of 1.5 foot on the 1st and 2d decreased to 0.6 foot on the 29th and 30th. At Wilsonville, there was a steady fall from 3.7 feet on the 1st to 2.1 feet on the 29th, a rise to 2.9 feet being recorded on the 30th, and at Portland, the fall was from 16.7 feet, which is 1.7 foot above flood stage, on the 1st to 10.4 feet, or 4.6 feet below the flood stage, on the 30th. On account of the low water and gravel bars, navigation was not possible above the mouth

of the Yamhill River, but regular trips were made throughout the month to Newberg, which is a few miles below that point.

REPORTS OF STAGES OF STREAMS IN MONTANA DURING JUNE, AND THE PROSPECTIVE FLOW OF WATER FOR THE REMAINDER OF THE SEASON.

Missoula watershed—Bison Mountain: The Little Blackfoot is very much lower than usual. The snow in the mountains has all disappeared, the drifts having melted a month to 6 weeks earlier than usual. Bald Butte: There is less snow in the high mountains than for many years at this season. Hat Creek: There is no snow left in this locality, and the flow of water in the streams is now much below the average. The hay crop will be cut short on account of lack of water for irrigation. Ophir: Placer mining has been hampered by the shortage of water in the streams, the flow of which miners report to be less than half the average. No snow remains in places where it usually lasts till the latter part of July.

Bitterroot watershed.—Darby: The Bitterroot River is as low as it usually is at the beginning of August. There has been no shortage of water for irrigation up to the present time, but the supply for July and August will be largely dependent on rains. There is still some snow in the higher mountains, but there are fewer drifts than usual at the close of June. Sula: The East Fork is lower than usual at the close of June. The snow has melted earlier than usual in most places, but there are still some drifts remaining at high elevations in the Bitterroot Mountains.

Clarks Fork watershed.—The water is as low as it usually is a month later. The snow, except drifts, melted earlier than heretofore, and very little remained in the mountains at the end of June. Saltese: The St. Regis River is unusually low. The snow in the Bitterroot Mountains melted earlier than usual, and there will be a shortage of water during July and August. Noxon: The flow of water in Bull River was near the average during June. There are still some deep snow drifts on the north slopes, but the indications are for low water the remainder of the season.

Kootenai watershed.—Snowshoe: There is still some snow in the drainage basins of Snowshoe and Libby creeks, but the stage of water is lower than usual for June.—R. F. Young, Section Director.

MISCELLANEOUS PHENOMENA.

The prevailing winds were from the west. The amount of sunshine was nearly normal, except at Seattle, where there was a considerable deficiency. The percentage of possible sunshine was 75 at Spokane, 43 at Seattle, and 56 at Portland. Frosts were general in the interior during the early part of the month, serious damage to the apple crop resulting at a few places. Thunderstorms were of frequent occurrence and were reported generally on the 5th, 6th, 19th, and 20th. Several places suffered from hailstorms, that at Dufur, Oreg., on the 20th, which seriously damaged the apples over a wide area, being the severest. Sleet was reported at Ophir, Mont., on the 8th. Solar halos were observed on the 5th, 10th, 12th, and 25th, and in some places on other dates. An unusually severe sand storm occurred at The Dalles, Oreg., on the 11th. The highest wind was reported from North Head, Wash., where a maximum of 62 miles per hour from the southeast was reached on the 20th.

AVALANCHES IN THE CASCADES AND NORTHERN ROCKY MOUNTAINS DURING WINTER OF 1909-10.

By Edward A. Beals, District Forecaster.

For a week beginning February 25 and ending March 3, 1910, there were a great many avalanches in the Cascade and northern Rocky mountains. Avalanches in these mountains are of common occurrence every year, but this year there were more than ever before known, and not only were they heavier and more frequent in places where they occur every year, but in places

TABLE 1.—Climatological data for June, 1910. District No. 12, Columbia Valley.

	Таві	LE 1	-Cli	matolo	gical da	ta for	Ju	ne, 18	910.	D	istrict	No. 12	, Coli	ımbia	Va	uley				,
		Ì	Y.	Tem	perature,	, in de	grees	Fahr	enhei	it.	Preci	pitation	, in in		days e.		Sky		tion	
Stations.	Counties.	Elevation, feet.	Length of record,	Mean.	Departure from the normal.	Highest.	Date	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeited.	Number of rainy da	Number of clear days.	Number of part- ly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Montana. Anaconda:	Deer Lodge	5, 300	9	58.0	+ 3.3	91a	27	28ª	! 3	43a	1.04	: 	0.32	i 0.0	 7	 17	10			C. D. Demond.
Bison	Powell	7.240	1 1	!	+ 1.3	93	26	26	<u>.</u>	53	2.53	- 1.32	0.71	6.0	12	10	17		sw.	C. H. Anderson.
Columbia Falls	Ravalli	3 835	1 1	61.8		93	26	34	2		0.96		0.19	0.0	1Ĭ	20	8	2		Mrs. 1. M. Kennedy. Hiram Platt. W. A. Kerlee. Charles Frost. C. D. Demond. Mike Petery. J. B. Currie. M. K. Landreth. U. S. Weather Bureau.
Darby Dayton East Anacondas Fortine	Flathead	2,800	6	60.0		94 99	27 25†	31 28	41	46 36	0.73		0.20	0.0	4 8	17 17	10	13	sw.	Charles Frost.
Fortine	Lincoln	2,975	4 7	56.4		88 97	26 26	27 30	4	52 44	0.64		0.34	0.0	5	16 21	19 9	5	sw.	Mike Petery.
Hat Creek Kalispell	Powell	6,000		'	'	91	26	33			2.75	- 1.34	10.68	0.0	12	10	13	7 4	w. w.	M. K. Landreth.
Lost Creek	Deer Lodge	5, 200			+ 0.7		١	286	1 :		1 60		0.48	0.0	5	16 9b	. 8	5	sw.	Frank Henault.
McGinnis Meadows Missoula	Missoula	3,225	32	57.4 63.0	+ 3.1		26	30	3	52	0.67	- 1.57	0.45	0.0 0.0 T.	, 7	12	13	5	sw. sw. w.	Frank Henault. H. L. Beebe. U. S. Weather Bureau. E. S. Wilton. S. B. Muchmore. G. T. Bramble. M. H. Pierce. A. D. Stillman. F. P. Brown. U. S. Reclamation Service
Ophir Ovando	Powelldo	4,207	10	53.7	0.0	88 93*	27 27	28 27*	4	50	1.68	- 0,58	0.50	0.0 T.	8 9		113	ļ	w.	S. B. Muchmore.
Philipsburg	Sanders	2,475	12	58.2 60.2	+ 2.5 j	89 85	26 29	35 25	4†	42	T.	- 0,58 - 1.62	T.	0.0	0 7	21	0 6	9	sw.	M. H. Pierce.
Polson	ao	2,920	3 2	60.2		91	26 26	36 32	13 4 3	4.)	1.53		11.00	0.0	4 9	15	<mark>;</mark> .		ne.	F. P. Brown.
St. Ignatius St. Regis.	do	2.650	1 2 1	59.8		95	26	30	13	55	0.26		0.17	0.0		11	16	3 0	ne.	U. S. Reclamation Service R. D. Lee.
Saltese Snowshoe Troy Upper Lake McDonald	Lincoln	4,500	14			80 92	10 10	32 34	24 24	35	1.21	- 1.30	0.52	1.0 0.0	11	29 16 14	1 7 9	7	sw.	E. D. Lee. E. K. Tarbox. J. C. Riter. W. E. Milnor. F. F. Liebig.
Upper Lake McDonald Wyoming.	Flathead	3, 200	12 j	57.81	+ 1.2			34 5	3	38 (1.23		0.34	0.0	7	111			s.	F. F. Liebig.
Afton	Uinta	6,200	6	56. 1 54. 4	+ 1.3	88 84	27 27	24	3	53 50	0.29	- 0.90	0.12	0.0	3 3	28 15	13	$\left[egin{array}{c} 0 \\ 2 \end{array} ight]$	sw.	A. V. Call.
Bedford	Vellowstone Purk	5,900 7,000	10	54.6	+ 1.7	87 86	27 27	25 25 22	3	54 55	0.04	- 0.90 - 1.47	0.04	0.0	i	24	13	2		Mrs. Lucy Brown. C. G. Heiner. U. S. Army.
Nevada. San Jacinto				58.6		93	28	24	3	51		 		0.0	2	22	7	¦ i	sw.	Moses Jones.
Ulah. Standrod	Boxelder	l		60.8		88	27	30			İ			0.0	2	23	6	1	sw.	T. B. Jones.
Atlanta	Elmore	:	1									}	l	 	l	ļ 	 	i !	 	H. Warder Lewis.
AlbionAlmo	do	i	. 2 !	61.4		97	26	23	3	60	$\begin{array}{c} 0.24 \\ 0.20 \end{array}$		0, 24	6,0	1	27 24	6	$\begin{bmatrix} 1 \\ 0 \end{bmatrix}$	w.	G. A. Axline. Wm. L. Eames.
American FallsBlackfootBlackfoot Dam	Oneida	4.341		64.1 61.7	+ 3.1 - 0.5		27 26†	32 30	3	$\frac{53}{53}$	0, 20 , 0, 10	- 0.73 - 0.62	$\begin{bmatrix} 0, 10 \\ 0, 10 \end{bmatrix}$	0,0	1	24 23	6 5	0	sw.	O. H. Barber.
Blackfoot Dam Blanche	Lincoln		2 2	55.9		90		25	31	53	0.21		0, 19	0.0		23	! 5 	2	nw.	Wm. L. Eames, O. H. Barber, E. A. Dowd, N. W. Irsfield, Mrs. Belle Hess,
Blanche Bock's Ranch Bogus Creek Boners Ferry Boulds Mice	Elmore	3,500 4,200	2								0.48	ļ	0.42	0,0	3	21 22	9		l	
Bonners Ferry	Bonner	1,850	25	58.4	0,0	91	26 16	38 32	4	39 51	1.37	- 0.58	0, 26	0,0	7	. 10	7 15	5	nw.	F. P. Ingraham. U. S. Weather Bureau. W. H. Heather Bureau.
Boulder Mine	Cassia	3,800	4	67.2_{\pm}		100	26 (40						0.0	1	28 23 12	2 7		w.	Patrick Moriarty. H. J. Idema. W. Alvin Hall.
				- CB 4 :		85 100		36	3†	51	0, 03	 	0.34	T. 0.0	1	15	15	0	sw. w.	Prof. Wm. J. Boone. Mrs. Edna Faulkner.
Camas. Cambridge Chesterfield. Clawson Cœur d'Alene	Washington	2,651	13	64.8	+ 1.2	100	26	33	- 8 - 8	55 55	0.08	- 0.75 - 1.61	6.04	0,0	2	7	18		sw.	Chas. H. Shepherd.
Clawson	Fremont	0 157	.	04.4:	+ 1.4							l	0.30	0.0		17 	ļ	6 		Chas. H. Shepherd. Chas. S. West. E. J. Hopkins. Jos. T. Scott.
Cottonwood Creek Crawford	Boise	4,000			+ 0.6		10†				0.25	- 0.83	0, 25	0.0	ī	24	: 0	6 '		Frank Hedrick.
Culdesac Deary	Nes Perce	1,520	2	62.6		100	100	341	197	541	т.		T.	0.0		19	9	2	.	R. R. Richmond.
DentDriggs	Latah Nez Perce	1,350	5	57.9			97		·····!	51	0.11	ļ	0.10			16	10	:: <u>;</u> :	s₩.	Emil Schuegeler
Edie	do	4,500	.¦	56.1		85	28 J	29	3	48	T.		T.	0.0	١ō	26	4	Ō	sw.	Walter H. Durrant, Geo. B. Edie. W. A. Edwards. E. L. Marvin. M. B. Merritt.
EmmettForney	Canyon																			E. L. Marvin. M. B. Merritt.
Garden Vallev	Boise	3.600	ii	;	+ 4.0			· · · · · · ·			6.26	l	0.16	0.0	2	23	. 7	n	sw.	Mrs Gertrude M Ross
Garnet	Nez Perce	3,030		i	1										i	1	l .			Asa A. Kenison. J. B. Loomis. I. E. Perkins.
Glenns Ferry Gooding Grand Forks Grandview	Lincoln	3,572 3,000	J::::'	65.4 55.4		101	26 10	31 27	3	54 57	0.08		0.08	0,0	1 2	24 17	- '6' 11	0 2	w.	John Krell ir.
GrandviewGreen Timber	Owyhee	2,381		67.4		104	26	32	3	58	0.27						4	6	nw.	Henry Kottkey. N. G. Massey. Otto Stegelmeier
Grimes Pass Guffey Hailey	Boise	1 D. 31KI	1 1								0, 13	i .	0.12	0.0	3	23		4		Joseph M. Clarke.
Hotspring	Owyhee	2,752	5	62. 0 69. 4		92 104	26 26	32 36	8.	46 50	: 0.06 T.		0.03 T.	0.0		$\frac{24}{24}$	3 6		sw.	Fred Perry. U. S. Forest Service. J. M. Waterhouse.
Idaho City	BoiseBingham	4,000 4,742	10		+ 3.8						!	i. 16		0.0		$ \cdot _{\frac{1}{22}}$.	' <u>.</u> .	4	ne.	Mrs. Emma Hammer. Dr. T. M. Bridges.
Idaho Falls. Indian Valley Irwin	Bingham	6.500	1	60.0		95	27	20	3	 59	0.08 0.17		0.04	0.0	j 1	22	3		w. w.	Mrs, Emma Hammer, Dr. T. M. Bridges, W. E. Henke. Eva Johnston. W. McM. Huff.
Kellogg. Kirkham Kooskia	Shoshone	2.330	6	57.8		92	10	33	4†	52	0.61 0.86		$0.24 \\ 0.80$	0.0	5 2	20	5	7	sw.	MITS. JUSTE D. WEST.
Lake	Fremont	ˈ 6, 700	2 21	62.8	:	97	26	35	13	54	0.75		0.35	0.0	4	16	14	0 '	w,	U. S. Forest Service. J. Sherwood.
Landore	Washington	2,250 5,300	13	54.5		88	26		<u>.</u> .	50	0.15	- 0.43	0.11	T.	2 5	21	8	ij	 	E. D. Faust. Mrs. Emma L. Brown. U. S. Weather Bureau.
LewistonLittle Camas	Nes Perce	5,000	17		- 3.3	. !				'	0.09	1	17.04	0.0	3	10	12 17	6 3	e. w,	Mon Flinsboth A High
Long GulchLoon Creek	Custer	6,000	::::				!			. .		'		0.0		24	4		 - · · · · ·	Mrs. Emma Walter.
Loon Creek Lost River Lowry McCall	Owyhee	9,700 5,00±	2	62.7		99	28	28	4	64	0. 15		0. 10	0.0	2	21	4	5 2	же.	Mrs. Emma Walter. Mrs. Mary L. Lemon. W. D. Winter. U. S. Forest Service.
Mackay	Custer	5,897	3	60.5		90 88 04	11	33 90	77	35 45 50	0.31 0.13 0.70		0.21	0.0	1	21 26 27 17	13	3	nw.	Do. Chas. A. Hackney.
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TABLE 1.—Climatological data for June, 1910. District No. 18—Continued.

	T	ABLE		-Cirma	tologica	. data	jor	J une	, 19	10.	Dist	rict No.	15	Cont		a.				_
	1		Y.	Temp	erature,	in de	grees	Fabi	enbe	eit.	Preci	ipitation	, in in	ches.	daye		Sky	.	tion.	
Stations.	Counties.	Elevation, feet.	Length of record,	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy .01 inch or more	Number of olear days.	Number of part-	Number of cloudy days.	Prevailing wind direction.	Observers.
Idaho-Cont'd.	Consis	4,097	,	65.2		99	27	33	3	47	0.31	Ì	0.94	0, 0	2	18				D 4 W
Milner	Latah	. 2,748	18	57.6	- 1.0	89	10	34	14	50 56	T. 0.00	- 1.39	0. 24 T. 0. 00	0.0	0	11 21	10 11	8	nw.	R. A. Hanson. University of Idaho.
Mountainhome Murtaugh	U88818		4	63.4		864	27† 27	284	3	52d	0.00		0.00	0.0	0		5		nw. w.	Mrs. Ellen Manion. J. E. Steinour.
Nez Perces			17	55.0 64.5	+ 2.1	88 98	10 27	28 32	13	47 50	Т.	- 0.81	0, 10 T.	0.0	0	20	10	· ···ö·	nw. s.	P. Mitchell. John Adams.
O'Hara Bar Orofino	Nez Perce	. 1,400	5	62.5 63.2		95h 98	10	375 37	3†	53 ¹	0.18		0. 10 0. 12	0.0 0.0	5 2 2	20	10	· ··.ö.		U. S. Forest Service. Geo. Alteneder.
Payette	Bannock	. 2, 159 . 5, 277	20	66. 2 58. 1		102 92	26 27	34 25	9	59 56	0.15	_ 0.52 		0.0	2 2	20 18	9	3	n. sw.	E. F. Allen. Mrs. Fannie Say.
Pierson	Elmore	. 7,000 . 4,100		-			'				0.18		0.18	0.0	1	24				David P. Clarke. Mrs. Jennie Potter.
Placerville	Ada	3,000							· · · · ·	¦								· ···		James McDevitt. C. E. Friedrich
Pocatello Pocatello Nursery	Ronnock	I A AXX	11 3	65. 2 58. 8	+ 1.0	94	27 14†	38 28	9	44 53	0.08	- 0.91	0.05 0.21	0.0	4 2	17 24	13 6		se. sw.	U. S. Weather Bureau. Mrs. Anna M. Wrensted
PoplarPorthill	Bonner	1 665	22	58.7	- 1.0		26		4	l .	1.60	- 0.06	0.42	0.0	7	20		.1		Stanley Bybee. H. A. French.
Powers Ranch	Roise	. 4 300		!			·	,	' <i>.</i> .	·	0, 22		0. 15	0,0	3	22	3	- İ		Mrs. Mona B. Powers. Walter L. Cole.
Rattlesnake Creek Ruby Creek	Elmore	.: 4,000	ļ			ļ. .			ļ						ļ " .		ا	.	ne.	Richard M. Green. O. A. Hatter.
Rupert	Lincoln	. 4.204	4	63.6	1	. 99∘		32 32	3	53 · 58	0.01	<i>.</i>	0.01	0.0	i.	26	<u>2</u>	2222	w.	Will Parry.
Salmon Dam	Twin Falls	. 4,020	2 2	65.7		98	26†	34	3	45	C. 05		0.03	0.0	3 2	23 21	7	2	nw.	E. K. Abbott. Arch M. Gilbert.
Sheep Hill	Lincoln	. 3.968	2	63.6		92	27	35	3	' ;	0.01			0.0	i'i'	17	13		w.	Clifford M. Gardner. O. A. Truman.
Silver City Smith Prairie	Owyhee	. 6,280 . 5,200									0.67		0.25	0.0	4	22	3	5	s.	A. D. Bradfield. Wm. W. Newell.
Soldier Sugar	Fremont		3	60.0		90		31	3†	52	0.11		0. 11	0.0	i.	18	· ··;	· · · · · · · · · · · · · · · · · · ·	 8W.	W. W. Leek. Geo. F. Webb.
Sunnyside	Elmore		2	63.8		102	26 27	32		50		!		0.0	1 0	20	9		nw;	E. A. Wilmot. Mrs. W. A. Edwards.
Tripod Mountan	Boise	4,300		64.0		1	ļ	30			0.35 0.06			0.0	2 2	22 15	7 15	1	w.	Mrs. Verna Paddock. J. A. Waters.
Vernon	Fremont	9 799	13	60. 2 58. 7	+ 3.6	90	27 10	30 33	4†	48	0.05 0.71	- i. i6	0.05	0.0	1	19	ii		sw.	A. M. Slatery.
Wendell	Lincoln	3,400	2			102	26†		3	52	0.05		0.20	0.0	8	24	6	. o	w.	U. S. Weather Bureau. Chas. L. Dingler.
Washington . Aberdeen	Chehalis	. 162	19	55.5	- 1.1	861		41.	23†	370	3.31	- 0.31 - 0.46	1.56	0.0	5	1	29	0		Carl S. Weatherwax.
AnacortesBaker	do	. 200	16	56.9 59.8		87	10	40 39	12	38 43	2.41	1	0.53	0.0	8	12 13	2	15	·	Douglas Allmond. Robt. M. White.
Bellingham Blaine	do	. 53	15 13	56.3	- 2.0	77 75	10	34 38	23 3	32 34	1.79	+ 0.07 - 0.68	0.64 0.71	0.0	9	19 [1			sw.	Sanford B. Mayhew. John W. Sheets.
Blewett	Kitsen	. Í			I: :: :::::	1	····	\ !		ļ	0,66		0.36	0,0	·;·		:[:::			John Burmeister. U. S. Navy Yard.
Brewster	Vakima	•		64.3 51.8			10	38 26	21	38 41	0, 22		0.11	0,0	3	14 19			8.	U. S. Navy Yard. Mrs. H. F. Bertram. U. S. Reclamation Service.
Cochmore	('holon			· · · · · ·							0.21		0.17	0.0	.3	14	16	0	nw.	Valley Power Co
Cedar River Centralia Cheney Clealum	Lewis	212	17 11	57. 6	- 1.9	96 931	10	35 35 ⁶	2	48 53	2,02	-0.28	0.75	0.0	7 2	11 17	16	3	w.	George Landsburg. I. S. Turner. Northern Pacific Ry.
Clealum	Kittitas	1,930	ii	55.7	- 0.4	90	10	30	3	51	0.69	+ 0.16 - 0.29	0.35	0.0	3	24	5		nw.	J. A. Balmer. Geo. Gibbs.
Clearwater	Jefferson	135	14							 - <u></u>							::::		:	A. Ritchie.
Colfax Colville	Stevens	. 2,300	10	58.8 58.9	- 0.1 - 3.3 - 1.4	92	10 10	31	13	51 53	0.37	- 0.67 - 0.36 - 0.95	0. 17	0.0	8	io			sw.	W. H. James. W. L. Sax.
Conconully Cowiche	Yakima			58. 2 62. 2	- 1.4	93	10	33		386	0.49		0, 31	0.0	5	14 23	4	3	s. nw.	Wm. Baines. U. S. Reclamation Service.
Crescent	Lincoln	. 2,250 . 2,450	10	58.6 59.4		91 90	10	31 33	13† 21		0.36		0, 22 0, 24	0,0	4	25 20	3 9		sw.	Otto Wollweber. W. H. Reed.
Dayton Detroit	Columbia	1,700	24 2	62.9 58.0	+ 0.6	96 88	10	40	8	38	0.54		0.47 0.64	0,0	2	18 14	13	0	sw.	W. W. Hendron. Walter O. Eckert.
DixieDuckabush	. Walla Walla	5,000	1 2	57.4				39*		46	1.15		0, 60 1, 52	0.0	13		4	10	sw.	T. Z. Andrews. E. J. Finch.
East Sound Ellensburg	San Juan	.; 500	15 22	60.9	ļ	1	10						1		ļ	ļ				Benj. E. Harrison.
EphrataForks	Grant	1 285	7	65.8	1	96	10†		20 21 3		0.00		0,00	0.0	4	15	14	į 1	nw.	R. Lee Barnes. T. J. Cook.
Fort Simcoe	Yakima	1,427	16	59.9		82° 95	3 10	39°	2	43° 45	0.30	- 0.20	0.70 0.30	0.0	7	10: 22		* 11°		E. A. Markham. Frank C. Hill.
Goat Lake	Vekime	9 600	1			ļ <u>.</u>		 			0.80	.ii. 	0.49	0.υ	3	15			w.	C. M. Mackintosh. John W. Anderson.
Goldendale Granite Falls	. Snohomish	. 397	7	62.4		96	10	36	3	49	3.49	- 0.39	0,00 1,12	0.0	9	7	13	10		Klickitat Co. Abstract Co. C. H. Cleaver.
Hatton Huntsville	Columbia	. 1.400	. 2	63.2		102	10	32	2	49	0.32		1 0. 27	0,0 0,0	3 2	24	4	. 2	sw.	Dr. A. V. Marion. Dr. B. Hill.
Irene Mountain Kennewick	Benton	. 3,015 . 367	15	68.0	- i.i	104	iö	37	13	53	1.65 0.30	+ 0.02	0.37	0,0	11 2	11	12	7	sw.	Manda Shain. L. W. Soth
Kettle Falls Kiona	Stevens	. 1.265	5	61.8 66.7	1	91 99	10† 10		13	46	1.70		0.70	0.0	9	15 20				Harry H. Cole. Dr. F. S. Hedger. J. A. Ulsh.
KosmosLa Center	Lewis	. 775	13	57.7		94	10	33	3	49	1.60		0.84	0.0	7	6			ne.	J. A. Ulsh. Joseph Brothers.
La CrosseLake Clealum	Whitman	. 1,400	1	61.0			10	31	13	53	0.29 1.06		0.17	0.0	3	21	8	1	₩.	M. E. Schreck.
Lake Kachess	do	2 235	1 2	55.6			10	33	3.	46	1.06			0.0	6	15 15	10 12		e.	U. S. Reclamation Service.
Lake KeechelusLakeside	Chelan	1,118	19	64.8		90	10	42	21	36		– 0.73	0. 15	0.0	2	8	20	2	w.	Do. W. H. Van Meter.
Laurel	Ferry	-		63. 2		94	26	35	4	52	1, 27		0.34	0.0		5	10	15	8.	
Lester	Chehalis	. 1,614	6	56.6 56.1	I	91 76		34 46	i 9	4.4	11 76		0.95	0.0	5	14	6	10	w.	W. W. Clabaugh. U. S. A. Engineer Corne.
Lost Creek	. Okanogan	. 3, 125	1			ļ	į						1	0,0	2	17	-		sw.	Mrs. J. S. Myers. W. W. Clabaugh. U. S. A. Engineer Corps. U. S. Forest Service. P. H. Leese.
Lyle McCumber's Ranch	Klickitat	. 600 2 182	17		l .									0.0	3	18				Wm. Morginson. Mrs. Mary McCumber. G. H. Mottinger. F. M. Grout.
Mottinger Mount Pleasant	Benton	. 307	10	67.6	- 1.4 - 1.7	101	10	45	21	41	0.56	+ 0.07 - 0.45	0.56	0.0	1	26	2	2	w.	G. H. Mottinger.
modul finasant		. 650	10	08.0	- 1.7	. 89	10	39	. 3	37	2.04	- 0.45	1.44	0.0	5	13	' 11	' 6	w.	' F. M. Grout.

TABLE 1.—Climatological data for June, 1910. District No. 12—Continued.

	<u>_</u>	<u> </u>	$T \cdot 0$		erature,					П		ct No.			Ę.	ı ——	Sky.	ŀ		
			rd, yrs			—.	i ees		; - ;	_	riecij		, 111 1110		iny da; more.		-		wind direction.	
Stations.	Counties.	Elevation, feet.	Length of record,	Mean.	Departure from the normal.	Highest,	Date.	Lowest.	Date. Greatest daily	range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rain .01 inch or n	Number of	Number of part- ly cloudy days.	Number of cloudy days.	Prevailing win	Observers.
Washington-Cont'd.		1 000	•	44.0	i	00	_	i	; ¬	-	 . or İ							! j		F P. G
Moxee Newport	Yakima Stevens	J	18	64. 8 56. 6	+ 0.2	86	1 10†	37 28	13 5	50 :	0.74	- 0.40	$0.16 \\ 0.42$	0.0	4	18	20 8	1 4	w. w.	Henry B. Scudder. Chas. M. Talmadge.
North Head Northport	Stevens	1,950	8	$\frac{53.1}{62.9}$	- 1.9	96	10 10†.	47 31	4 6	12 32	2. 23 0. 21	+ 0.45 - 1.80	0.76 0.19	0, 0	11 6		13 11	2	nw.	U.S. Weather Bureau. John Palm.
North Yakima Nutland Odessa	Yakima Klickitat	1,076	1 1	64. 8 65. 2			10 10	40 42	20† 4	12 38	0.55 0.32		0.24 :	0.0	3	24	3	<mark>3</mark>	nw.	J. R. Shepard.
Ω1σο	Nan Juan	. au	30	62.5	- 2.4	98 73	10 4†	32 40	3 3	11	0.31 :		-0.201	0.0	3 5	10 11	14 14		sw.	Wm. U. Neelev.
Olympia Omak	Thurston	. 2011	3.3	57. 4 64. 2	- 1.8	88	10 10	35 36	3 4 6† 4	18	1.04	- 0, 11 - 0, 73	0.44	0, 0	6	11	6	13	sw.	Cecil S. Willis. M. O'Connor. Wm. G. Tait.
Oroville Peola	do	922	1		J						0.98			0.0 0.0	4	17	13			A. M. Dufield. Samuel Gruell, sr.
Pomeroy	do	1,500	18	62.4	-1.7		25 10	38	3 4	12	0.15	- 0.74	0.15 أ	0.0	1	12	. 16	. 2 1	w.	Peter McClung.
PomeroyPort CrescentPort TownsendPullman	Jefferson	80	15 20	50. 4 55. 9	- 2.6	76	10	45	12† :	27	0.97	- 0.48 - 0.57	0.35	0.0	7	7	5	18	nw. w.	U.S. Weather Bureau. Frank Plummer.
Pullman Quiniault Republic	Chehalis	300	18	59. 4 55. 2	· !		10	33 39	26 4	12 12	4.36	- 1.12	0.25	0, 0° 0, 0	$\frac{1}{12}$	8	20	2 '	sw.	State Agricultural College A. V. Higley.
Republic Rex Creek	Ferry	2,628 1,135	10	55.3 58.9	- 3.0		10 10	29 : 41 s	4 4 3† 3	3114	0.21		0.11	0,0	12	12	8	10 16 t	nw.	Geo. B. Stocking. James W. Nicol.
Rex CreekRitsvilleRock LakeRosalia.	AdamsWhitman	1,825 1,750	11	62.2	'j	97	9 .	34	22	16	0,40	+ 0.17	[0, 38]	0, 0 0, 0	4 2	! 10	. 13	7	 . w.	Northern Pacific Ry. P. M. Ramsey.
KIIRREIN KADCU	I MKIIIIM	2.010	18	60, 0	+ 2.3		10	37	2† 4	11	0.28	- 0.78	0, 16	0,0	3	20		4	sw.	Hans Mumm.
Scenic Hot Springs	Kingdodo	2,021 123		57.5	-2.6:	84	10	46	2	30	0.82	- 0.90	0.34	0,0	8	5	10	15	s	Maggie M. Russell. J. V. Prosser. U. S. Weather Bureau.
Godro-Wooley	. Skegit	1 38	13	59.6 65.7		88	10 10	36	27	44	3.04	+ 0.14	1, 10	0,0	$\begin{vmatrix} \tilde{9} \\ 4 \end{vmatrix}$	10		6	sw.	Mrs. H. L. Devin. C. E. Comstock.
Skagit Power Dam	Whatcom	123	16	·	- 2.1		٠	33			1	- 0.10			10	.'			·	Skagit Power Co. Warren Hodge.
Snohomish Snoqualmie Falls	King	667	111	57.2 59.9	+ 0.5		10	37		46 ¦	1.80	- 1.07	0,60	0,0	8	17	9	12	nw.	O. N. Wiswell. Geo. M. Snyder.
Snyders Ranch South Bend	Pacific	. 3,200	15	54.0	- 3.5		10	40	3†	34 '	3, 12	- 0.69	1.45		11	3	17	10		Miss Winifred Eichner.
South BendSpokaneState UniversityStokes Ranch	Spokane King	1,943	29 1	61.4 57.2	- 2.0	90 85	10 10	41 45	3	$\frac{26}{32}$	0.21 0.86	- 1.40	0, 10	0, 0	6	7	8	10 15	sw.	U.S. Weather Bureau. University of Washington.
Sullivan Lake	Nievens.	. 2.700				 .	!		, <u></u>	! 	$0.49 \\ 1.27$		0, 28 0, 66	0,0	8	16 16		10	nw.	Amos Stokes. U. S. Forest Service.
Sumner	Pierce	77] 2	57.8 64.2	- 1.1	86 98	10 10	35 ¹	3 2†	441 49	1 49 i	+ 0.17	0.52	0.0	6	10	8 7	12	n. nw.	H. E. Thompson U. S. Reclamation Service.
Tacoma	Pierce	.! 213 86	24	57.2	-2.2°	86		44	$\begin{bmatrix} & \overline{3} \\ 1 & 3 \end{bmatrix}$	34 17	0.90	+0.17 -1.23 -2.45	0.47	0,0	7	9	8	13 16	II.	U.S. Weather Bureau.
Tieton	Vekima	1 2. OOO	1	58.1 65.8	- 0.8	89 101	10 10	35 38	· 20 ·	43	0.46 !		0.35	0, 0	1 4 5	21	9	0	w.	U.S. Reclamation Service. D. W. Dorrance.
Touchet Ridge	Columbia	2,500	1	۱			10			i	1 44 :		0.10	0,0		18		10	sw.	R. H. King. J. C. Wheeler. J. S. Allen, jr.
Trinidad Twisp Tyee	Okanogan	. 1,619	7	68.1	i			40	20				i	0,0	٠			,	nw.	J. S. Allen, jr.
TyeeVancouverVashon Island	Clarke	100	35 35	61.1	- 1.2	96		39	3	43 !	1, 20	- 0.69	1.02	0, 0	3 <u>5</u>	10	111	9	w. nw.	Elias McCrea. A. A. Quarnberg.
Wehlijke	Litant	. 410	. 0	56.2 67.5	- 2.2	77 98°		40 40a	8	44	0.42	- 1.11	0, 33	0,0		16	6			Miss Gertrude McClintock F. C. Koppen. G. A. Wallace.
Wallace Walla Walla	Walla Walla	1,000	26	65.2	- 3,0	102		42	2	45	0.63	- 0.56	$\pm 0.52 \ $	0.0	- 8 - 5	, 20	6	4	s.	U.S. Weather Bureau.
Walla Walla Waterville Wenatchee (near)	Chelan	. 2,624 . 1,169	20 11		$\begin{vmatrix} -1.4 \\ -0.9 \end{vmatrix}$	91±		34 a 40	21	45' 34	0, 25	- 0.96 - 0.69	0.13	0, 0	3				w. w.	O. R. Hopewell. Geo. A. Pitcher.
West Branch	Lincoln	. 2, 203	11		- 0.5		10	29		48	0, 60	- 0.47	0.31	0,0				7	s.	U. S. Forest Service. Rollin J. Reeves.
YaleZindel	Cowlitz	. 375 . 715	' 3 8		i	92	10 !	38	8	41 	2.68		1.69	0,0	6	$\frac{12}{12}$		12	sw.	L. F. Williams. M. W. Zindel.
Oregon.	Linn	. 214	28	57.8	_ 3.7	92	10	38	2	42	1.16	- 0.19	0, 76	0,0	6	10	12	8	s.	F. M. French.
AshlandAstoria	Jackson	. 1,940	22 48		$\begin{array}{c} -0.3 \\ -2.4 \end{array}$	90 75	9 10	42 44	21	$\frac{41}{23}$.	0.22^{+}	-0.85 + 0.35	$0.15 \\ 1.68$	0.0	2 8	11		8	w.	F. H. Carter. Irving Club.
Baker City Bay City	Baker	. 3,466	20		- 2.7		10 :	36		'	٠	- 3, 10		0.0		٠١٠	٠,٠.٠,٠	٠	nw.	Irving Club. U.S. Weather Bureau. J.O. Bozarth.
BendBirch Creek	Crook	. 3,629	8		`	(14k	. . .'.	35k	·		1			0,0	' ·	14			nw.	F.O.Minor.
Black ButteBlalock	Lane	. 1,200	9	55.0	- 1.8	87	10 10	35 46	$_{1}$ 2 3	38 ;	1.95	- 0.30	1.25	0,0	. 4	19	8	3	ne.	William Harris. Geo. W. Long.
Buckhorn Farm Cascade Locks	Josephine	. 1,300	12		[-1,9]		10					- 0.44		0,0	١		٠	7	w.	E. F. Meissner. Val. W. Tompkins.
CasaderoCondon	Clackamas	. 514	1	58.6	_ 1,"	91	10 10	36 31	. 3	50	1.61		1.03	0,0	j 8	j 9	4	17	nw.	Alf Drill. C. H. Williams.
Connor Creek	Baker	. 1,800		ļ	ç _. . _.	,	' .		.'				1		·					R. C. Eisele. Oregon Agricultural Coll.
Corvallis	Grant	. 1,500	15	58.2 63.0	$\begin{vmatrix} -1.6 \\ +1.1 \end{vmatrix}$	90 ± 98 91	10	38 34 39	21	56	0.42	+0.54 -0.33	0.27	0,0			6	6 5 14	nw.	Dr. Campbell-Martin. Jos. Hackenberg.
Doraville Drain	Douglas	. 300	7	1 59.0		96 j		35	3 .	49 -	1.12		0,49	0.0	7	ંબ	14	. 7	nw.	Ira Wimberly.
EchoElla	. Morrow	.: 830	5	65.0		101 98	10	40·	1†.	50	$: 0.27^{\circ}$	- 0.33	0.15	0.0	5	, 18	11	1	sw.	R. B. Stanfield. C. F. Troedson.
Eugene Fairview	. Coos	. 142	12	57.9	-1.6 -3.8	$\begin{bmatrix} & 89 \\ 72 & \end{bmatrix}$	11 18	39 32	1 21	37 31	1,63 2,26	- 0,45 + 0,63	0.56 0.75	0.0			8	9 18		F. L. Barker. William Bettys.
Falls City Forest Grove	Polk	355	20			'			 .					'	.' 		.j	: ::::		. Chas. F. Vick. Pacific University.
GardinerGlendale	Douglas	. 72	20	59. 6 59. 4	1	74 94	10	41 38			0, 90	- 0.94	0,60	0.0	6 4 7	12 14	15	1	nw.	Hon. J. S. Gray. C. Olson.
GlenoraGold Beach	Tillamook	. 40	18	54.8 52.8	+ 2.4	90 68	10 ' 23	33 38	3 3†:	$\frac{47}{29}$	$\begin{array}{c} 2.32 \\ 12.26 \end{array}$	- 1.42	$0.97 \\ 1.02$	0.0	7	17	2	17 12	sw.	Mrs. Jennie Reeher. C. Dewey.
GraniteGrants Pass	Grant	4,680	91	53.2	1	85	10 9ti	24 33	$+\frac{8}{23}$	52 54	T.	- 0.60	' T.		; 0	6	19	. 5	i nw	L. M. Ford. John B. Paddock.
Grass Valley Greenleaf	. Sherman	. 2,381	. 8	54.3		92	11	29	3	49	0.62		0.15	0.0	3	lig	7 7	4	sw.	Oreg. Ry. & Navigation Co. Wm. H. Wheeler.
Grindstone	. Crook	. 5,000	١	57.6	. '		10	37						0,0	.' <u>.</u>	i0	18		sw.	Orrin C. Mills. Portland Water Works.
Heppner	. Morrow	. 1,950	21		+ 0.1		10 10	35	3 2 13	42 51	0.58	- 1.03 - 0.46	0, 45	0.0	4	16	5	9	nw.	Ralph Kenton. C. W. Kellogg.
Hood River	. Hood River	. 243	19	62. 2 78. 6	+ 1.4	95 100	10 25	36	5	50	. 0, 60	-0.38	0.40	0.0	2	23	7	0	w.	H. L. Hasbrouck. J. M. Day.
Huntington	Jackson	1 640	21	61.4	- i.i	94	10	37	23	46	0.44	- 0.58	0.33	0.0			1 15	8		E. Britt.

TABLE 1.—Climatological data for June, 1910. District No. 12—Continued.

			yrs.	Tem	perature,	, in deg	grees	Fahr	enbei	it.	Prec	pitation	, in i	aches.	days	1	Sky		ction.	
Stations.	Counties.	Elevation, feet.	Length of record,	Mean.	Departure from the normal	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy day .01 inch or more.	Number of clear days.	Number of part- ly cloudy days.	Number of cloudy days.	Prevailing wind direction	Observers.
Oregon—Cont'd.		T	T_ ;			- I	. 1	•	· ;				ļ	- – I]
ph rande	Wallowa Union	4,400 2,784	21 24	54. 4 60. 8	$\begin{array}{c c} + 0.1 \\ + 1.3 \end{array}$	85 93	$\frac{10}{25}$	28 35	` <u>8</u>	40	0.46	$-0.68 \\ -1.04$	0.40	0.0	5	18 21	5 4	7	nw.	F. F. McCully. W. A. Worstell.
ras	Crook	2, 150	i !						١											Robert Rea.
hfield	Coos		6	54.8		69	9†	39	2	28 55	1.61		0, 76	0.0	i 7		ı		nw.	Mrs. E. I. Mingus.
ensie Bridge	Lane	1,400	7				10 ¹¹	31	. 2†	55	2, 73		0.66	0.0	9	14	Ö		sw.	Geo. Frissell.
innville	Yamhill	180		57.9	-1.8		10 .	37	31.	48	1.25	- 0.29	1.08	0.0	' 3	9	5		sw.	J. H. Pruett.
calo	Gilliam	1,600	4	60.8			10	35	21	46	0.69		0.30	0.0	j 4.	24	6	0	w.	Frank Little.
monte Farm	Clackamas			60.0	- 0.4	92h		38h	12	425	1.20	- 0.25	0.925				13a		w.	G. M. Muecke.
roe	Benton			58.0	$-\frac{1.5}{-2.0}$			42	10	41	0.77	- 0.35 - 0.67	0.59	0.0	7 2	11 10	9		sw.	L. A. Peek.
nt Angel nt Hood	Marion Hood River			99. B	- 2.0 (99	10 (42	12	52	1.39	- 0.67	1.34	0.0	1 2	l ro	11	9	8.	Dr. W. F. Fisher, S. G. Babson,
ntain Park				57.3		884	10	36		4()°	1.77	ļ	0.77	0.0	5	iii		14	w.	M. Markley.
ck						79	10	21	23	46		· · · · · · · · · · · · · · · · · · ·		0.0	9	17	3		sw.	Alex. Lundburg.
port	Linton		22				31 .	40				- 0,90	1. 18	0.0	9	15	5		nw.	William Matthews.
Neton	IImatilla	1.272	20	63.0	- 0,6 - 1.2	104	10	34	3	62	0.58	-0.36	0.37	Ö.Ö	5	iš	ıĭ	îi	sw.	H. F. Johnson.
Rock	do	1,872	1 1			. • · · · · ·	! .			1		l	1	·				!		John P. McManus.
peii	Clackamas	3,580	15	48.2	-0.9		10 /	30		39		- 0.28		0.0	. 8	7	10		sw.	O. C. Yocum.
land		57	38	60.3	- 1.2		10	44	. 3	36	1.61	-0.04	1.34	0,0	7	8	16	6	nw.	U.S. Weather Bureau
eville	Crook				- 0.2	95 j	10	28	2	52	0.64	- 0.17	10.28	0.0	4	11	9	10		
pect,	Jackson	2,750	4	· • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •		٠: ۲۰		ا.ي	·: <u>.</u> .				٠٠	;-			أحيجا		E. F. Graham.
sey	Wasco	2 500	1	30, () 51 2		89 93 1	10	$\frac{31}{20}$:		47	1.39		0.58	0.0	6		5	3	w.	Mrs. Iva B. Collins.
ge	Baker	2 350	8			97	26	35	8	52	0.92		0.43	0.0	5	20	9	5 1 3 i		Craig Thom. C. G. Morgan.
rside		3,000	111		+ 3.6		28	30	' 2î .	63		- 0.83		0.0			5 2	0	w. w.	Mrs. Leah Fairman.
burg	Douglas		33	59. 7	$-1.0 \pm$	94	10	39	93	46	1. 09	-0.03	0.48	0.0	8	10	14	6	nw.	U.S. Weather Bureau
n	Marion			59. 9	-1.3°	87	10	42	12	34	1.19	-0.09	1.00	0.0			3	16	nw.	M. P. Baldwin.
you	Jackson	4, 115	1	54.2		84	91	32	20 (0.46		0.18	0.0	4	15	š		e.	Lewis F. Bates.
ta		4, 150	17																	Hon. J. A. Wright,
ord	Clackamas			58.6	-1.3 -1.9	93 :		38	13 .	39	1.65	-0.14	. 1. 19	0.0	7			اا	sw.	John P. Gage.
Dalles				64.5	- 1.9	96	10	43	3†:	43	0.72	+ 0.17	0.39	0.0	3	23	1	6	w.	S. L. Brooks.
Heads							·			ا ا										Willis T. White.
do	Linton Umatilla			57.1	+ 0.7	$\frac{76}{98}$	2†. 10	44 42	1 2	30 42		- 1.21		0.0	3	22	5	3	n.	C.B.Crosno.
tilla	Malheur		18	$\frac{67.8}{66.2}$	$\frac{-0.9}{+2.8}$		26	33 :	- 2	64	0.90	+ 0.58 - 0.64	0.83	0.0	3	22 24	6	6	w.	Mrs. Helen T. Dunca H. P. Osborn.
	Harney			60.8	T 2.0	97	25 I	28	8	62	0.07	- 0.04	0.05	0.0	2 1	17	13		ne. nw.	Geo. Howe.
ace Orchard	Polk	170	1 1 !			90	10	38 .	12	41				0.0	3	**	1.9	٧	лw.	Chas. A. Parks.
owa	Wallowa Wasco	2,935	7			94	10		8	54				0.0	Ğ	14	4	12	nw.	L. J. Coverstone.
·O	Wasco	1,500	2	62. 1		90	10	46	9	42				0,0	6	20	5	- 5 I	w.	A. J. Swift.
nspring	Crook	1,600	8:	59.0		97		36	7†	61 '	0.82		0.32	0.0	4	25	5	0.1	nw.	C. C. Covey.
on	Umatilla			64.5	$+ 3.9 \pm$	102	9	37	2†	53	0.85	-0.47	; 0.60	0.0	5	13	9	8	sw.	M. A. Baker.
ams	Josephine	I.368	17			. .							'	' - -						J. M. John.

^{*,} b, *, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

* Precipitation included in that of the next measurement.

* Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.

† Also on other dates.

\$ Separate dates of falls not recorded.

Data are from standard instruments not supplied by the U. S. Weather Bureau.

\$ Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Estimated by observer.

Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

Table 2.—Daily precipitation for June, 1910. District No. 12, Columbia Valley.

		TA	ABI	JE Z	Z.—	Dat	uy 1	prec	ıpıt	atro	n jo	or J	une,	, 19	. O.	Die	itric	N	p. 12	8, C	oiui	nord	V	me	y									
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TABLE 2.—Daily precipitation for June, 1910. District No. 12—Continued.

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Salmon Salmon River Dam Sheep Hill	Middle Snake	·	٠	. - · ·	- <u>i</u>	j	Т.	Т	`.	·					;	Т.		. 03	.02		· · · · ¦					i		;- -	¦	T.	T.			0.05
Shoshone	Wood-Malad			·:- · ·			T.	i		1::	· · · ·			• • • •	;	.01		T.				::::i							:::::					0.01
Silver City Smith Prairie	Owyhee						.21	•1	16	· ··	·-j		¦ .	• • • • •				. 25		;				. 05				¦	;					0.67
Soldier	Wood-Malad) <u>.</u>		1		100		Ш.				. "														•	·····					
Sugar Sunnyside	Upper Snake	• • • •		·		· · · · ·	07	ļ _i		٠	· · · ·		· - : ; ·	• • • •				i				••••			• • • •				٠			. 11	ı	0.11
Tilden Tripod Mountain Twin Falls	Upper Snake						i	Ť																		·								Т.
Tripod Mountain Twin Falls	Twin Falls		···				.11	т.		• • •	• • • •	• • • •			• • • •	• • • • •		. 24	• • • • •							j	i: : : :	i			i			0, 35 0, 06
Vernon	Upper Snake		١	ļ					[.05			T				·	ļ	ļi	·						0.05
Wallace	Upper Snake	1.	Τ.	I'.			T.	Ť	. [. 0.		 	· · ·		. 02 .	• • •			.05	. 20	. 11.5		. 19	. 18		1.	i								0.71
Wallace Wendell. Washington. Aberdeen. Aherdeen. Anacortes. Baker Bellingham Blaine. Blewett Bremerton Brewster Bumping Lake Cashmere Cedar River Centralia Cheney Cleatorook Clearbook Clearbook Colville. Conconully Cowiche Crescent Davenport Davenport Dayton. Detroit Diukabush East Sound Ellensburg Ephrata Fort Simcoe Goat Lake Gold Creek.	Coast			1				İ	:	!			G1		i	i			96		. 4.1	1 50	. 49				1						, [3,31
Anacortes	Puget Sound					.03	.07	::d	02		· · · ·	·· :	53 .						.07	.01		1. 00	. 13						į			.05		0.91
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Blaine	do	T.	ΪŤ.			.02	. 19	i				٦.	71	т.						Т.	. 65		. 11	.02					i	·		Ť.		1.70
Blewett	Puget Sound		¦: : : :	<u> </u>				• • •			• •		10.						.02	.02	: : : . : : : : :	.36	.06		.04		, 				j: : : : :			0.66
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TABLE 2.—Daily precipitation for June, 1910. District No. 12—Continued.

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Table 3.—Maximum and minimum temperatures at selected stations for June, 1910. District No. 12, Columbia Valley.

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26 27 28 29 30	91 81 81 80 81	49 50 56 46 53	98 94 87 88 87	51 57 53 45 54	87 88 81 80 81	34 38 41 41 40	100 97 83 86 82	63 59 56 51 56	87 83 76 81 67	47 43 41 39 47	104 100 96 92 89	59 58 58 50 58	90 86 79 84 79	58 58 57 50 58	88 86 87 83 82	46 47 48 47 51	90 79 87 81	38 47 41 39 44	92 94 81 85 86	57 63 60 60	97 94 92 90	44 47 45 52	82 84 82 84 82	52 59 58 59 57	90 83 85 84	47 51 43 50	85 83 81 82 80	46 43 45 39 44
Mns	73.5	45.5	80. 6	45.4	77.2	35.0	81.3	50.6	75.5	41.3	89.3	49.5	79.8	51.7	77.9	43.1	76.9	38, 8	80.5	50, 0	83.1	42.1	79. 7	47.5	78.7	41.7	76.2	41.2
		_					1		1					Vashin 	gton.				1				-		1			
		Aberdeen.		Blaine.		Colvine.		Kosmos.		Lakeside.		North Head.		North Yakima		Odessa.		Port Crescent.	1	Seattle.	: 	Sixprong.		Spokane.		Тасота.		Tstoogh Island
Date.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1 2 3 4 5	73	48 48 44 48 51	61 61 68 75 59	50 48 38 41 49	76 65 75 84 85	41 41 42 32 40	79 61 77 88 75	45 45 33 39 39	83 70 74 84 81	55 47 48 48 55	52 52 54 57 56	47 48 48 50 50	73 72 78 85 85	59 45 46 43 61	90 85 80 81 85	46 40 32 39 48	58 57 66 70 58	47 40 35 37 49	60 60 68 81 60	49 46 47 51 53	87 70 77 86 82	62 43 50 55 60	68 59 67 77 80	46 43 46 41 50	60 60 66 81 58	47 44 44 49 52	53 56 55 65 54	48 47 46 48 50
6 7 8 9 10	74	48 49	54 61 61 70 75	49 41 47 50 44	74 65 72 83 92	38 44 40 44 40	58 59 78 83 94	39 43 40 39 45	74 77 78 86 90	51 48 48 53 55	55 54 54 56 64	50 50 50 50 50 52	80 70 78 86 96	48 45 44 54 54	79 76 75 85 98	46 45 37 44 47	55 58 57 59 74	41 40 37 44 43	58 60 65 73 84	51 46 46 50 55	73 70 87 87 99	45 42 40 50 62	70 61 70 79 90	48 47 48 47 56	58 62 68 76 86	49 45 46 50 52	56 53 56 57 64	49 48 48 48 48 48
11 12 13 14 15	62 58 62	50 47 44 47 50	61 60 62 69 64	52 40 44 44 49	88 73 83 85 83	54 35 32 38 41	77 68 72 69 73	49 41 38 49 46	77 70 81 81 83	51 47 47 59 55	54 56 54 60 58	50 49 51 51 52	72 75 82 85 84	59 44 44 55 54	92 73 80 88 82	57 37 35 37 41	56 55 56 60 57	43 38 41 44 47	60 64 66 67 66	49 46 48 51 52	94 73 82 85 85	63 40 49 55 49	76 66 77 82 78	51 43 42 47 53	59 64 67 70 66	47 45 47 50 52	53 52 54 58 54	47 46 47 48 48
16 17 18 19 20	. 59 . 62 . 64 . 59	52 48 47 49 47	66 65 63 58 63	51 48 42 41 43	72 71 73 72 71	49 44 43 44 42	64 62 68 65 60	50 45 48 48 45	73 74 75 67 71	60 48 52 50 44	55 56 58 55 54	51 49 48 50 47	68 72 76 68 72	57 42 52 54 40	74 72 69 71 80	54 46 42 43 52	54 58 58 55 55	47 45 46 45 42	63 61 66 60 61	52 49 50 51 49	78 72 75 75 69	54 44 56 53 46	65 68 68 77 65	52 47 54 51 50	63 63 60 61	52 48 49 50 47	55 56 57 56 54	48 48 47 47 47
21 22 23 24 25	63	48 46 41 45 43	54 61 67 69 66	48 47 40 44 49	65 68 74 83 88	38 34 34 36 35	63 69 73 79 72	42 45 46 39 51	71 72 78 85 90	42 52 45 49 55	56 58 58 57 56	48 48 50 53 53	73 74 78 85 93	40 53 46 49 54	70 75 75 85 91	41 43 45 46 48	53 55 60 59 59	45 43 39 41 42	60 61 69 71 63	48 50 50 52 52	76 69 77 86 92	45 56 42 52 57	65 69 70 81 88	46 46 50 46 52	61 63 68 72 66	47 50 50 50 52	54 58 59 55 60	46 47 48 50 49
26 27 28 29 30	67 65 68	41 48 48 46 50	67 66 64 68 68	45 39 45 39 51	86 87 78 82 82	46 40 37 36 41	74 72 72 76 69	44 39 45 44 53	85 83 75 83 79	55 55 54 54 60	55 55 56 60 60	52 50 49 52 53	87 86 81 82 82	58 52 55 49 52	88 85 79 81 78	50 45 48 41 54	58 58 55 62 59	42 39 43 38 48	65 66 61 66 66	51 49 51 50 55	89 83 76 80 77	59 54 46 45 58	83 82 73 80 72	56 54 53 51 60	66 66 62 69 65	48 50 47 51 52	58 57 57 59 58	51 50 48 46 50
		1	1	1	1	1	ł	1	1	1	ı	1	79.3	50.3	1		1	1	65.0	1	80.3	51.1	73.5	49.2	65.6	48.7	56.4	47.9

TABLE 3.—Maximum and minimum temperatures at selected stations for June, 1910. District No. 12—Continued.

		W SEBD.											Oreg	on.										
Date.		Walia Walia, W		Ashisnd.		Baker City.	ß	ro g ene.	1 2 2	Gold Beson.	1	петшівкоп.		marennero.	į	rorumud.	Ę	Fringville.		Koseburg.		The Dalles.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	73 68 76 83 80	49 42 48 51 53	85 73 82 82 70	54 42 43 51 42			86 68 62 72 69	49 39 39 47 51	61 57 63 58 61	51 43 38 47 48	98 79 79 87 87	61 45 41 41 60	61 59 62 60 59	49 39 42 51 50	63 60 75 86 62	51 49 44 52 54	81 64 65 85 84	28 39 34 38	74 70 79 72 66	49 43 40 45 51	90 66 78 85 83	57 47 43 45 56	94 74 80 86 85	57 41 38 41 45
6	73 68 76 88 102	51 50 48 53 57	71 72 82 90 89	46 47 42 49 58			61 64 65 74 80	50 48 42 49 52	60 59 62 63 65	45 47 38 41 41	79 72 80 89 101	52 50 45 46 50	63 64 62 69 69	50 50 51 41 44	61 61 74 81 94	52 50 48 50 58	74 64 78 87 95	33 35 29 36 43	68 71 81 90 94	52 51 42 44 52	69 65 78 86 96	54 50 43 49 53	86 77 75 88 98	50 50 36 33 41
11	73 72 81 82 82	50 46 48 55 55	67 78 71 62 74	50 49 46 47 46			89 63 67 69 69	53 41 44 48 45	58 58 60 62	51 44 43 43 40	98 74 84 86 85	61 46 40 56 57	58 60 58 64 61	50 40 50 50 46	61 68 72 68 67	50 45 53 53 54	81 72 80 80 78	44 30 33 46 36	63 72 63 71 73	51 45 46 51 45	90 73 80 75 77	60 45 46 57 55	97 82 84 91 95	69 45 38 45 59
16	70	54 53 55 56 53	62 65 69 71 59	51 49 49 47 51		ļ 	69 65 68 70 69	51 43 43 43 43 48	59 59 63 61 60	48 41 45 48 49	80 75 78 78 78 73	55 50 - 55 50 54	62 60 66 66 60	51 42 48 49 48	63 61 68 67 65	53 50 51 53 50	70 70 72 70 80	49 38 48 45 36	64 63 71 68 63	52 45 49 51 46	70 69 72 73 69	58 52 55 56 47	94 81 80 92 80	54 38 56 47 47
21	71	48 52 51 55 61	66 63 76 85 89	43 46 42 49 54		! 	61 62 67 75 78	42 44 44 44 50	59 66 68 61 62	41 45 39 44 46	73 75 79 92 93	45 55 50 48 53	63 63 66 65 63	43 .47 40 46 53	63 62 75 81 73	49 51 52 52 52 55	76 63 70 83 90	44 44 40 39 45	68 62 79 83 80	40 44 39 45 49	69 71 77 83 84	44 54 47 50 55	76 74 82 89 96	37 41 49 38 41
26. 27. 28. 29. 30.	83 76	63 57 54 52 58	84 75 72 75 75 79	52 50 48 46 46			71 72 67 67 73	46 44 45 45 54	60 61 64 64	42 50 43 41 52	93 86 79 84 84	62 52 50 51 57	62 62 64 66 66	52 52 51 45 48	72 71 66 71 69	54 48 50 51 56	84 76 73 80 72	50 46 34 34 50	78 63 71 74 73	51 51 50 44 54	82 79 72 79 76	59 54 53 52 59	105 99 98 94 91	41 44 44 46 42
Means	77. 7	52.6	74.6	47.8			69.7	46. 1	61. 1	44.4	85.3	51.3	62.8	46, 9	69, 3	51.3	76.6	39.4	72.3	47.2	77.2	51.8	87.4	45.1